

Mechanisms of Development 69 (1997) 221-222



Author index

Volume 69 (1997)

Aaku-Saraste, E., Oback, B., Hellwig, A., Huttner, W.B., Neuroepithelial cells downregulate their plasma membrane polarity prior to neural tube closure and neurogenesis, 71

Abe, K., see Tanaka, H., 209

Aizawa, S., see Suda, Y., 125

Baker, C.V.H., Bronner-Fraser, M., The origins of the neural crest. Part I: embryonic induction, 3

Baker, C.V.H., Bronner-Fraser, M., The origins of the neural crest. Part II: an evolutionary perspective, 13

Ballabio, A., see Valsecchi, V., 203

Båvik, C., Ward, S.J., Ong, D.E., Identification of a mechanism to localize generation of retinoic acid in rat embryos, 155

Becker, M.-B., see Bosse, A., 169

Bosse, A., Zülch, A., Becker, M.-B., Torres, M., Gómez-Skarmeta, J.L., Modolell, J., Gruss, P., Identification of the vertebrate Iroquois homeobox gene family with overlapping expression during early development of the nervous system, 169

Brändli, A.W., see Heller, N., 83 Bronner-Fraser, M., see Baker, C.V.H., 13

Bronner-Fraser, M., see Baker, C.V.H., 3

Chen, X., see Nikolova, M., 215 Copp, A.J., see Henderson, D.J., 39 Costa, R.H., see Peterson, R.S., 53

De Robertis, E.M., see Heanue, T.A., 31

Gautier, J., see Hensey, C., 183

Georgias, C., Wasser, M., Hinz, U., A basic-helix-loop-helix protein expressed in precursors of *Drosophila* longitudinal visceral muscles, 115

Ghezzi, C., see Valsecchi, V., 203

Gómez-Skarmeta, J.L., see Bosse, A., 169

Gruss, P., see Bosse, A., 169

Heanue, T.A., Johnson, R.L., Izpisua-Belmonte, J.-C., Stern, C.D., De Robertis, E.M., Tabin, C.J., Goosecoid misexpression alters the morphology and Hox gene expression of the developing chick limb bud, 31

Heller, N., Brändli, A.W., Xenopus Pax-2 displays multiple splice forms during embryogenesis and pronephric kidney development, 83

Hellwig, A., see Aaku-Saraste, E., 71

Helms, J.A., see Iwasaki, M., 197

Henderson, D.J., Ybot-Gonzalez, P., Copp, A.J., Over-expression of the chondroitin sulphate proteoglycan versican is associated with defective neural crest migration in the Pax3 mutant mouse (splotch), 30

Hensey, C., Gautier, J., A developmental timer that regulates apoptosis at the onset of gastrulation, 183

Hinz, U., see Georgias, C., 115

Hoppler, S., see McGrew, L.L., 105

Huttner, W.B., see Aaku-Saraste, E., 71

Iwasaki, M., Le, A.X., Helms, J.A., Expression of indian hedgehog, bone morphogenetic protein 6 and gli during skeletal morphogenesis, 197 Izpisua-Belmonte, J.-C., see Heanue, T.A., 31

Johnson, R.L., see Heanue, T.A., 31

Kim, C.-H., see Tanaka, H., 209

Le, A.X., see Iwasaki, M., 197 Lim¹, L., see Peterson, R.S., 53

Lufkin, T., see Nikolova, M., 215

Matsuo, I., see Suda, Y., 125

McGrew, L.L., Hoppler, S., Moon, R.T., Wnt and FGF pathways cooperatively pattern anteroposterior neural ectoderm in *Xenopus*, 105

Modolell, J., see Bosse, A., 169 Moon, R.T., see McGrew, L.L., 105

Nikolova, M., Chen, X., Lufkin, T., Nkx2.6 expression is transiently and specifically restricted to the branchial region of pharyngeal-stage mouse embryos, 215

Oback, B., see Aaku-Saraste, E., 71 Ong, D.E., see Båvik, C., 155

Overdier, D.G., see Peterson, R.S., 53

Peterson, R.S., Lim¹, L., Ye, H., Zhou, H., Overdier, D.G., Costa, R.H.,
The winged helix transcriptional activator HFH-8 is expressed in the
mesoderm of the primitive streak stage of mouse embryos and its
cellular derivatives, 53

Rugarli, E.I., see Valsecchi, V., 203

Satoh, N., see Shimauchi, Y., 143

Shimauchi, Y., Yasuo, H., Satoh, N., Autonomy of ascidian fork head/ HNF-3 gene expression, 143

Stern, C.D., see Heanue, T.A., 31

Suda, Y., Matsuo, I., Aizawa, S., Cooperation between Otx1 and Otx2 genes in developmental patterning of rostral brain, 125

Tabin, C.J., see Heanue, T.A., 31

Tanaka, H., Abe, K., Kim, C.-H., Cloning and expression of the quaking gene in the zebrafish embryo, 209

Torres, M., see Bosse, A., 169

Valsecchi, V., Ghezzi, C., Ballabio, A., Rugarli, E.I., JAGGED2: a putative Notch ligand expressed in the apical ectodermal ridge and in sites of epithelial-mesenchymal interactions, 203

Author index

Ward, S.J., see Båvik, C., 155 Wasser, M., see Georgias, C., 115

Yasuo, H., see Shimauchi, Y., 143 Ybot-Gonzalez, P., see Henderson, D.J., 39 Ye, H., see Peterson, R.S., 53

Zhou, H., see Peterson, R.S., 53 Zülch, A., see Bosse, A., 169



Mechanisms of Development 69 (1997) 223-228



Subject index

Volume 69 (1997)

Adaxial cells; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkI; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Alternative splicing; Xenopus embryogenesis; Paired box genes; Pax-2; Pronephric kidney 69, 83

Alternative splicing; Quaking; KH domain; RNA binding; Zebrafish; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Amphioxus; Neural crest; Placode; Evolution; Chordate; Vertebrate; Ascidian 69, 13

Apical ectodermal ridge; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Apoptosis; Xenopus; Midblastula transition; Developmental timer 69,

Articular; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Mineralization 69, 197

Ascidian; Neural crest; Placode; Evolution; Chordate; Vertebrate; Amphioxus 69, 13

Ascidians; fork head/HNF-3 gene; Endoderm; Notochord; Spinal cord; Autonomous expression **69**, 143

Autonomous expression; Ascidians; fork head/HNF-3 gene; Endoderm; Notochord; Spinal cord 69, 143

bHLH protein; *Drosophila*; Visceral mesoderm; Myogenesis; Twohybrid system **69**, 115

BMP; Neural crest; Induction; Xenopus; Chick; FGF 69, 3

Body trunk; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development;

Nervous system; qkI; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail!; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Bone morphogenetic protein; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization **69**, 197

Brain regionalization; *Otx2*; *Otx1*; *Fg/8*; Forebrain; Midbrain; Hindbrain; Isthmic organizer; Mutant mice **69**, 125

Branchial arches; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Branchial cleft; Iroquois; Prepattern gene; Homeobox; Mouse; *Xenopus*; Human; Neurogenesis; Otic vesicle; Limb **69**, 169

Cardiac sac; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkI; who/how/struthio; Pectoral finbud; zqk; Tailbud; snailI; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Cartilage; Bone; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

Cell polarity; Neuroepithelium; Viral envelope proteins 69, 71

Cell-specific transcription factor; Winged helix/fork head domain; Splanchnic mesoderm; Yolk sac mesoderm; Mouse embryo; Lung; Intestine; Endothelial cells 69, 53

Cellular retinol binding protein 1; Vitamin A; Embryo; Retinol binding protein-receptor; Retinol-dehydrogenase; Retinal-dehydrogenase 69, 143

Chick; goosecoid; Limb; Hox 69, 31

Chick; Neural crest; Induction; Xenopus; BMP; FGF 69, 3

Chondrocyte; Bone; Cartilage; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

Chordate; Neural crest; Placode; Evolution; Vertebrate; Amphioxus; Ascidian 69, 13

Development; Bone; Cartilage; Chondrocyte; Skeleton; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization **69**, 197

Development; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction **69**, 209

Developmental timer; *Xenopus*; Apoptosis; Midblastula transition **69**, 183

Dominant negative protein; Wnt; Neural induction; FGF; Xenopus; Noggin 69, 105

Drosophila; bHLH protein; Visceral mesoderm; Myogenesis; Twohybrid system **69**, 115

Ectoderm; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Embryo; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Embryo; Vitamin A; Retinol binding protein-receptor; Cellular retinol binding protein 1; Retinol-dehydrogenase; Retinal-dehydrogenase 69, 143

Endochondral; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Joint; Articular; Mineralization 69, 197

Endoderm; Ascidians; fork head/HNF-3 gene; Notochord; Spinal cord; Autonomous expression 69, 143

Endothelial cells; Winged helix/fork head domain; Cell-specific transcription factor; Splanchnic mesoderm; Yolk sac mesoderm; Mouse embryo; Lung; Intestine **69**, 53

Evolution; Neural crest; Placode; Chordate; Vertebrate; Amphioxus; Ascidian **69**, 13

Evolution; Quaking; KH domain; RNA binding; Zebrafish; Alternative

splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkI; who/how/struhio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Fetal; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

FGF; Neural crest; Induction; Xenopus; Chick; BMP 69, 3

FGF; Wnt; Neural induction; *Xenopus*; Noggin; Dominant negative protein **69**, 105

Fgf8; Otx2; Otx1; Brain regionalization; Forebrain; Midbrain; Hindbrain; Isthmic organizer; Mutant mice 69, 125

Forebrain; Otx2; Otx1; Fg/8; Brain regionalization; Midbrain; Hindbrain; Isthmic organizer; Mutant mice 69, 125

fork head/HNF-3 gene; Ascidians; Endoderm; Notochord; Spinal cord; Autonomous expression 69, 143

Gastrulation; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Gene expression; Jagged; Serrate; Notch; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Gli; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

goosecoid; Limb; Hox; Chick 69, 31

Hard tissue; Bone; Cartilage; Chondrocyte; Skeleton; Development;
 Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli;
 Fetal; Puberty; Morphogenesis; Intramembranous; Endochondral; Joint;
 Articular; Mineralization 69, 197

Hindbrain; Otx2; Otx1; Fg/8; Brain regionalization; Forebrain; Midbrain; Isthmic organizer; Mutant mice 69, 125

Homeobox; Iroquois; Prepattern gene; Mouse; *Xenopus*; Human; Neurogenesis; Otic vesicle; Branchial cleft; Limb 69, 169

Homologue; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Development; Nervous system; qkl; who/how/struhio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail1; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Hox; goosecoid; Limb; Chick 69, 31

Human genetics; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland 69, 203

Human; Iroquois; Prepattern gene; Homeobox; Mouse; Xenopus; Neurogenesis; Otic vesicle; Branchial cleft; Limb 69, 169

Hypertrophy; Bone; Cartilage; Chondrocyte; Skeleton; Development; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization **69**, 197

Hypomyelination; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail1; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

In situ hybridization; Jagged; Serrate; Notch; Gene expression; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Indian hedgehog; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

Induction; Neural crest; Xenopus; Chick; BMP; FGF 69, 3

Insertion; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Intestine; Winged helix/fork head domain; Cell-specific transcription factor; Splanchnic mesoderm; Yolk sac mesoderm; Mouse embryo; Lung; Endothelial cells **69**, 53

Intramembranous; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Endochondral; Joint; Articular; Mineralization 69, 197

Iroquois; Prepattern gene; Homeobox; Mouse; Xenopus; Human; Neurogenesis; Otic vesicle; Branchial cleft; Limb 69, 169

Isthmic organizer; *Otx2*; *Otx1*; *Fgf8*; Brain regionalization; Forebrain; Midbrain; Hindbrain; Mutant mice **69**, 125

Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons;

Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Joint; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Articular; Mineralization 69, 197

KH domain; Quaking; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail1; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Limb patterning; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Limb; goosecoid; Hox; Chick 69, 31

Limb; Iroquois; Prepattern gene; Homeobox; Mouse; *Xenopus*; Human; Neurogenesis; Otic vesicle; Branchial cleft **69**, 169

Lung; Winged helix/fork head domain; Cell-specific transcription factor; Splanchnic mesoderm; Yolk sac mesoderm; Mouse embryo; Intestine; Endothelial cells **69**, 53

Maternal; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Midblastula transition; *Xenopus*; Apoptosis; Developmental timer 69, 183

Midbrain–hindbrain junction; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Midbrain; Otx2; Otx1; Fg/8; Brain regionalization; Forebrain; Hindbrain; Isthmic organizer; Mutant mice 69, 125

Mineralization; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular 69, 197

Mitral cells; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Morphogenesis; Bone; Cartilage; Chondrocyte; Skeleton; Development;

Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Intramembranous; Endochondral; Joint; Articular; Mineralization 69, 197

Motor neurons; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Mouse development; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Mouse embryo; Winged helix/fork head domain; Cell-specific transcription factor; Splanchnic mesoderm; Yolk sac mesoderm; Lung; Intestine; Endothelial cells 69, 53

Mouse; Iroquois; Prepattern gene; Homeobox; *Xenopus*; Human; Neurogenesis; Otic vesicle; Branchial cleft; Limb 69, 169

Mutant mice; Otx2; Otx1; Fg/8; Brain regionalization; Forebrain; Midbrain; Hindbrain; Isthmic organizer 69, 125

Mutant mouse; Over-expression; Neural crest abnormality 69, 39

Myelination; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Paraxial mesoderm; Homologue; Development; Nervous system; qkI; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Myogenesis; Drosophila; bHLH protein; Visceral mesoderm; Twohybrid system 69, 115

Nervous system; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Emproy; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Neural crest abnormality; Over-expression; Mutant mouse 69, 39

Neural crest; Induction; Xenopus; Chick; BMP; FGF 69, 3

Neural crest; Placode; Evolution; Chordate; Vertebrate; Amphioxus; Ascidian 69, 13

Neural crest; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Neural induction; Wnt; FGF; Xenopus; Noggin; Dominant negative protein 69, 105

Neural keel; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struhio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail1; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Reverse transcription-polymerase chain reaction 69, 209

Neuroepithelium; Cell polarity; Viral envelope proteins 69, 71

Neurogenesis; Iroquois; Prepattern gene; Homeobox; Mouse; *Xenopus*; Human; Otic vesicle; Branchial cleft; Limb **69**, 169

Nkx2.6 expression; Pharyngeal-stage mouse embryos 69, 215

Noggin; Wnt; Neural induction; FGF; *Xenopus*; Dominant negative protein 69, 105

Notch; Jagged; Serrate; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Notochord; Ascidians; *fork head/HNF-3* gene; Endoderm; Spinal cord; Autonomous expression **69**, 143

Olfactory bulb; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Olfactory epithelium; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Otic vesicle; Iroquois; Prepattern gene; Homeobox; Mouse; *Xenopus*; Human; Neurogenesis; Branchial cleft; Limb **69**, 169

Otx1; Otx2; Fg/8; Brain regionalization; Forebrain; Midbrain; Hindbrain; Isthmic organizer; Mutant mice 69, 125

Otx2; Otx1; Fg/8; Brain regionalization; Forebrain; Midbrain; Hindbrain; Isthmic organizer; Mutant mice 69, 125

Over-expression; Mutant mouse; Neural crest abnormality 69, 39

Paired box genes; Xenopus embryogenesis; Pax-2; Pronephric kidney; Alternative splicing 69, 83

Paraxial mesoderm; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Homologue; Development; Nervous system; qkl; who/how/strahio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Neural cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Pax-2; Xenopus embryogenesis; Paired box genes; Pronephric kidney; Alternative splicing 69, 83 Pectoral finbud; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Pharyngeal-stage mouse embryos; Nkx2.6 expression 69, 215

Placode; Neural crest; Evolution; Chordate; Vertebrate; Amphioxus; Ascidian 69, 13

Prepattern gene; Iroquois; Homeobox; Mouse; Xenopus; Human; Neurogenesis; Otic vesicle; Branchial cleft; Limb 69, 169

Pronephric kidney; *Xenopus* embryogenesis; Paired box genes; Pax-2; Alternative splicing **69**, 83

Puberty; Bone; Cartilage; Chondrocyte; Skeleton; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization **69**, 197

qkI; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail1; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snail1; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Retina; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain–hindbrain junction; Motor neurons; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Retinal-dehydrogenase; Vitamin A; Embryo; Retinol binding proteinreceptor; Cellular retinol binding protein 1; Retinol-dehydrogenase 69,

Retinol binding protein-receptor; Vitamin A; Embryo; Cellular retinol binding protein 1; Retinol-dehydrogenase; Retinal-dehydrogenase 69, 143

Retinol-dehydrogenase; Vitamin A; Embryo; Retinol binding proteinreceptor; Cellular retinol binding protein 1; Retinal-dehydrogenase 69, 143

Reverse transcription-polymerase chain reaction; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struhio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel 69, 209

RNA binding; Quaking; KH domain; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Sensory neurons; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Serrate; Jagged; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Skeleton; Bone; Cartilage; Chondrocyte; Development; Hypertrophy; Indian hedgehog; Bone morphogenetic protein; Gli; Fetal; Puberty; Hard tissue; Morphogenesis; Intramembranous; Endochondral; Joint; Articular; Mineralization **69**, 197

snail1; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Somites; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Spinal cord; Ascidians; *fork head/HNF-3* gene; Endoderm; Notochord; Autonomous expression **69**, 143

Splanchnic mesoderm; Winged helix/fork head domain; Cell-specific transcription factor; Yolk sac mesoderm; Mouse embryo; Lung; Intestine; Endothelial cells **69**, 53

Stomach; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Submandibular gland; Human genetics 69, 203

Submandibular gland; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain–hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Whisker development; Stomach; Human genetics 69, 203

Tailbud; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development;

Nervous system; qkI; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; snailI; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Thymus; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mittal cells; Sensory neurons; Tooth development; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Tooth development; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Whisker development; Stomach; Submandibular gland; Human genetics 69, 203

Two-hybrid system; *Drosophila*; bHLH protein; Visceral mesoderm; Myogenesis **69**, 115

Vertebrate; Neural crest; Placode; Evolution; Chordate; Amphioxus; Ascidian 69, 13

Viral envelope proteins; Cell polarity; Neuroepithelium 69, 71

Visceral mesoderm; Drosophila; bHLH protein; Myogenesis; Twohybrid system 69, 115

Vitamin A; Embryo; Retinol binding protein-receptor; Cellular retinol binding protein 1; Retinol-dehydrogenase; Retinal-dehydrogenase 69, 143

Whisker development; Jagged; Serrate; Notch; Gene expression; In situ hybridization; Mouse development; Limb patterning; Apical ectodermal ridge; Ectoderm; Branchial arches; Midbrain-hindbrain junction; Motor neurons; Retina; Olfactory bulb; Olfactory epithelium; Mitral cells; Sensory neurons; Thymus; Tooth development; Stomach; Submandibular gland; Human genetics 69, 203

who/how/struhio/Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; ; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Whole mount in situ hybridization; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkI; who/how/struthio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

Winged helix/fork head domain; Cell-specific transcription factor; Splanchnic mesoderm; Yolk sac mesoderm; Mouse embryo; Lung; Intestine; Endothelial cells 69, 53

Wnt; Neural induction; FGF; *Xenopus*; Noggin; Dominant negative protein 69, 105

Xenopus; Apoptosis; Midblastula transition; Developmental timer 69, 183

Xenopus; Iroquois; Prepattern gene; Homeobox; Mouse; Human; Neurogenesis; Otic vesicle; Branchial cleft; Limb 69, 169

Xenopus; Neural crest; Induction; Chick; BMP; FGF 69, 3

Xenopus; Wnt; Neural induction; FGF; Noggin; Dominant negative protein 69, 105

Xenopus embryogenesis; Paired box genes; Pax-2; Pronephric kidney; Alternative splicing 69, 83

Yolk sac mesoderm; Splanchnic mesoderm; Winged helix/fork head domain; Cell-specific transcription factor; Mouse embryo; Lung; Intestine; Endothelial cells 69, 53

Zebrafish; Quaking; KH domain; RNA binding; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkl; who/how/strathio; Cardiac sac; Pectoral finbud; zqk; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

zqk; Quaking; KH domain; RNA binding; Zebrafish; Alternative splicing; Myelination; Paraxial mesoderm; Homologue; Development; Nervous system; qkI; who/how/struthio; Cardiac sac; Pectoral finbud; Tailbud; snaill; Whole mount in situ hybridization; Evolution; Neural crest; Somites; Embryo; Insertion; Maternal; Hypomyelination; Adaxial cells; Body trunk; Gastrulation; Neural keel; Reverse transcription-polymerase chain reaction 69, 209

